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PATENT

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(54) ADHESIVE TAMPER PROTECTION LABEL AND PACKAGING
5 COMPRISING SUCH A LABEL

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(60) References to other related national documents:

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The present invention relates to an adhesive label designed to be glued onto product packaging. Product packaging is understood to refer to any container for a fluid or even solid product comprising a receptacle
5 containing the product and a mobile organ mounted on the receptacle. The receptacle may be comprised of a simple pot and the mobile organ may be a cap then being used as a cover, but it may also be a dispenser comprising a reservoir on which is mounted a dispensing
10 organ, such as a dispensing head, valve or pump, and the cap will then be used for protection. The mobile organ may also be an actuator to activate a pump or valve mounted on the receptacle. The term "mobile" includes any type of displacement, rotating,
15 translating, pivoting, etc. Consequently, the term product packaging must be taken in the wider meaning on condition that it comprises a receptacle and a mobile organ mounted on this receptacle.

20 A large quantity of product packagings on which closing or protection systems such as caps are fixed already exists on the market. When this cap is, for example, screwed onto the receptacle, nothing prevents someone from unscrewing it and using the product inside the
25 receptacle, while a consumer will later buy this same product believing that it is new and has never been used. Therefore, there is a need to prove to the consumer that the cap has never been opened and that the consumer really is buying something that he will
30 use first. This function is ensured by various systems called tamper protection systems.

For example, one may cite as a tamper protection system a heat-shrinkable sleeve that is engaged on the
35 packaging; a thermal treatment operation is then applied to the sleeve that presents a heat shrinking property in such a way that the sleeve will press

itself against the packaging. A detachable tab is provided in the sleeve in such a way that one only has to pull on the tab to open the sleeve and remove it from the packaging.

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On the other hand, most of these product packagings must be equipped with a finish or indications allowing the trademark or conditions of use of the product to be shown. This necessitates either a direct impression on the packaging receptacle, or the application of an adhesive label. And if one wished to equip such packaging with a tamper protection system, it is again necessary to perform an additional assembly operation, for example of a heat-shrinkable sleeve.

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The object of the present invention is to remedy the disadvantages of the prior art by defining a tamper protection system whose implementation on a packaging is extremely simple without having to resort to a specific operation.

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To do this, the present invention proposes an adhesive label designed to be glued onto a product packaging comprising a receptacle containing the product and a mobile organ mounted on the receptacle in such a way as to extend in line with the receptacle by defining a continuous linear junction, said label comprising a first part glued on the receptacle, a second part glued on the mobile organ and an intermediate part connecting the first and second parts and extending over the junction, said intermediate part being removable in such a way as to separate the first and second parts and therefore being able to activate the mobile organ. By activation, pressure (actuator), rotation or pivoting must be included.

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The adhesive label therefore fulfills a dual function, that is, that of a printing support for indications relative to the origin and nature of the product, and that of a tamper protection system by fixedly
5 connecting the cap to the receptacle. It is to be noted that the label also extends on the cap in such a way that it is therefore possible to affix the indications on the cap as on the receptacle. Advantageously, the intermediate part is non-adhesive. Removal of the
10 intermediate part is therefore facilitated. According to an advantageous embodiment, the adhesive label may be comprised from a support equipped with a neutralized adhesive layer at the level of the intermediate part. The latter may also be heat shrinkable.

15 In order to facilitate gripping of the removable intermediate part, the latter is formed with a tab that projects beyond the adhesive part of the label.

20 The cap may form an actuator for the activation of a pump or valve mounted on the receptacle.

According to another characteristic, the intermediate part is formed with a gripping tab. The lines of least
25 resistance may, for example, be formed by microperforations.

The present invention also defines an adhesive label designed to be glued on a product packaging comprising
30 a receptacle topped by a mobile organ, the label comprising a part glued on the receptacle and an upper part extending on the mobile organ, the second part being removable in such a way as to be able to activate the mobile organ. The upper part may be non-adhesive
35 and/or heat shrinkable.

Another object of the present invention is a packaging comprising such an adhesive label. The packaging may be a fluid product pot, flask or dispenser.

5 The invention will now be further described with reference to the attached drawings, giving by way of non-limiting example an embodiment of the present invention.

10 In the drawings:

- Figure 1 is a schematic plan view of an adhesive label according to the present invention,
- 15 - Figure 2 is a schematic view of a fluid product packaging in the form of a pot equipped with an adhesive label according to the present invention,
- Figure 3 is a view of Figure 2 with an
20 intermediate part removed in such a way that the cap may be removed from the receptacle,
- Figure 4 is a plan view of a label according to a third embodiment,
- 25 - Figure 5 is a view of a packaging equipped with a label according to Figure 4, and
- Figure 6 is a view in transverse section across a
30 dispenser equipped with a label according to a third embodiment of the invention.

The adhesive label 1 represented in Figure 1 may, for example, be comprised of a paper or plastic material
35 support that may possibly be used as a printing support for affixing indications such as a trademark or the conditions of use of the product. The support is coated

on its rear face by a layer of glue. The label 1 comprises three parts, that is, a first part 10, a second part 11 and an intermediate part 12. The intermediate part 12 connects the first and second parts 10, 11 and may be delimited by lines of least resistance 120, 121 at the level of which the intermediate part 12 may be separated from parts 10 and 11. The lines of least resistance may be formed by microperforations. In order to facilitate gripping of the intermediate part 12, this latter is formed with a gripping tab 122.

This label 1 is designed to be glued on a product packaging 2 that comprises a receptacle and a mobile organ 21 mounted on the receptacle. In the example represented in Figures 2 and 3, the product packaging is a pot that may contain a fluid or even solid product. A cap 21 seals the pot and extends in line with the receptacle 20 in such a way as to form a continuous linear junction. In the present case, the receptacle 20 may be perfectly cylindrical with a possibly circular section, and the cap 21 presents the same circular cylindrical section in such a way that the outer surface of the packaging formed by both the receptacle 10 and the cap 21 is perfectly cylindrical. The label 1 is glued on the outer surface of the packaging 1 with the first part 10 glued on the receptacle 20, the second part 20 glued on the cap 21 and the intermediate part 12 atop the continuous linear junction 210. It is essential that the continuous linear junction be situated between the two lines of least resistance 120, 121. When the intermediate part 12 is still connecting the first and second parts 10, 11, as represented in Figure 2, it is impossible to remove the cap 21 from the receptacle 20. On the other hand, when the intermediate part 12 is removed as represented in Figure 3, the two parts 10 and 11 are

separated and the cap 21 may be removed from the receptacle 20. According to an interesting characteristic, the intermediate part 12 may be non-adhesive by local neutralization of the adhesive layer.

5 One may therefore more easily remove the intermediate part 12 that does not present any adherence with the packaging.

One may imagine other forms for the packaging with a non-continuous junction, for example with a disconnect or reinforcement. In this case, it is advantageous that the intermediate part be shrinkable, for example by a heat treatment.

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15 One may also provide perforations in the intermediate part to give the part greater flexibility.

The label may go around the entire pot, or only extend on a part of its periphery.

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Reference will now be made to Figures 4 and 5 that show a second embodiment of the invention. Label 1 is distinguished from that of Figures 1 to 3 in that the intermediate part extends vertically by crossing the junction 210 and by traversing the parts 10 and 11. Because of this, there are two parts 10 glued on the receptacle and two parts 11 glued on the cap. It is also possible to have two, three or even more intermediate parts distributed vertically or crosswise around the pot and interrupting parts 10 and parts 11 and connecting these parts. The intermediate part(s) 12 may be non-adhesive and detachable along the lines of least resistance 120, 121. They may also be shrinkable, for example by heat treatment, advantageously at the level of the junction 210 in the case where the receptacle and cap are not in line with each other.

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In Figure 6 is represented a fluid product dispenser comprising a reservoir 20, a fixation ring 23 and an actuator 21. This is equipped with a label comprising a part 10 glued on the reservoir 20 and on the ring 23 and an upper part 13 extending on the actuator 21. The part 13 is advantageously non-adhesive and heat shrinkable in such a way as to be able to fill in the gap between the ring 23 and the actuator and to follow the forms of the actuator.

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The upper part is detachable along line 130 in such a way as to leave the actuator ready to be activated.

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Thanks to the invention, the tamper protection system is directly integrated into the adhesive label in such a way that it is not necessary to provide an additional operation to equip the packaging with a tamper protection system.

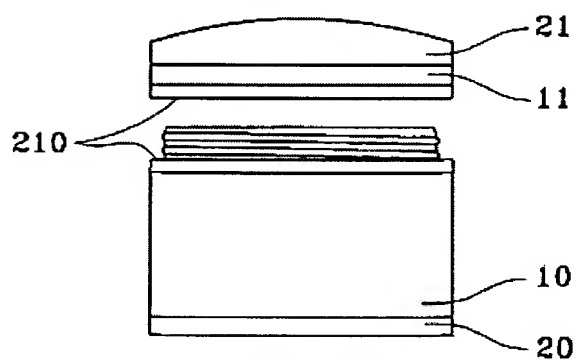
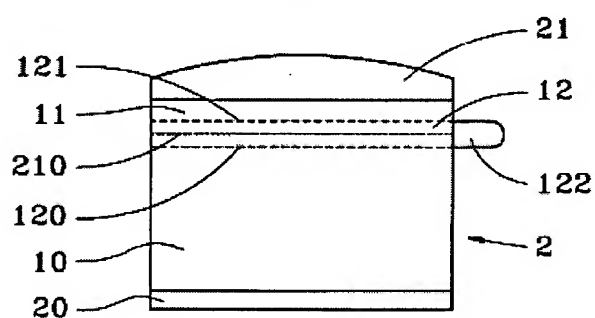
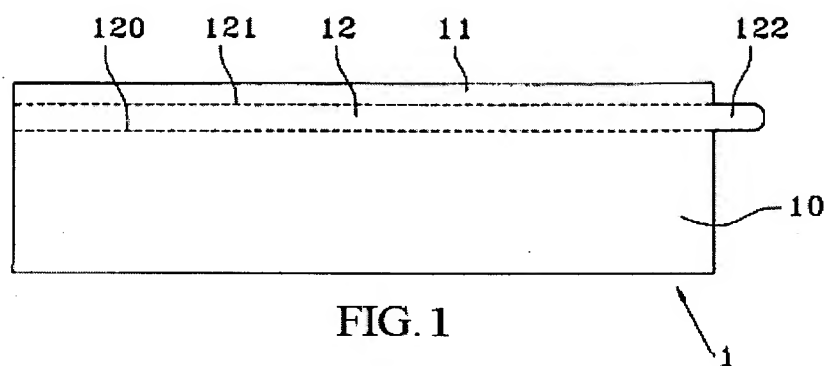
CLAIMS

1. An adhesive label (1) designed to be glued on a product packaging (2) comprising a receptacle (20) containing the product and a mobile organ (21) mounted on the receptacle by defining a common junction (210), characterized in that said label comprises at least one first part (10) glued on the receptacle (20), at least one second part (11) glued on the mobile organ (21) and at least one intermediate part (12) connecting the first and second parts and extending over the junction (210), said intermediate part (12) being removable in such a way as to separate the first and second parts (10, 11) and therefore to be able to activate the mobile organ.
2. The adhesive label according to claim 1, in which the intermediate part (12) is non-adhesive.
3. The adhesive label according to claim 2, constituted from a support equipped with a neutralized adhesive layer at the level of the intermediate part (12).
4. The adhesive label according to claim 1, 2 or 3, in which the intermediate part (12) is retractable.
5. The adhesive label according to any one of the previous claims, in which the intermediate part is formed with a gripping tab (122).
6. The adhesive label according to any one of the previous claims, in which the intermediate part (12) is delimited by lines of least resistance

(120, 121) respectively dividing the first and second parts (10, 11).

- 5 7. The adhesive label according to any one of the previous claims, in which the cap forms an actuator for activating a pump or a valve mounted on the receptacle.
- 10 8. The adhesive label (1) designed to be glued on a product packaging (2) comprising a receptacle (20) topped by a mobile organ (21), characterized in that the label comprises a part (10) glued on the receptacle and an upper part (13) extending over the mobile organ, the second part being removable
15 in such a way as to be able to activate the mobile organ.
- 20 9. The adhesive label according to claim 8, in which the upper part is non-adhesive.
10. The adhesive label according to claim 8 or 9, in which the upper part is retractable.
- 25 11. A product packaging comprising an adhesive label according to the previous claims.
12. The product packaging according to claim 11, in which the packaging is a pot.
- 30 13. The product packaging according to claim 11, in which the packaging is a fluid product dispenser.

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